

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. W A D 9 8 0 7 3 8 5 4 6	Manifest Document No. 0 9 0 0 4	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.	
3. Generator's Name and Mailing Address Alaskan Copper Works P.O. Box 3546, Seattle, WA 98124				A. State Manifest Document Number		
4. Generator's Phone (206) 382-8379				B. State Generator's ID		
5. Transporter 1 Company Name <i>Ph. L. P. TRANSPORTATION & WASTE DISPOSAL, INC.</i>				C. State Transporter's ID		
6. US EPA ID Number <i>RA D 0 6 3 5 4 1 9 9 8</i>				D. Transporter's Phone <i>1-800-371-1090</i>		
7. Transporter 2 Company Name				E. State Transporter's ID		
8. US EPA ID Number				F. Transporter's Phone		
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Tolleson, Arizona 85353-4025				G. State Facility's ID		
10. US EPA ID Number <i>A Z D 9 8 0 7 3 5 5 0 0</i>				H. Facility's Phone 800-972-1955		
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)				12. Containers	13. Total Quantity	14. Unit Wt/Vol
				No.	Type	Waste No.
a.	RQ, Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III			002	C F	029 13 P F006
b.	RQ, Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III			008	D M	063 1 P D007
c.						
d.						
J. Additional Descriptions for Materials Listed Above				K. Handling Codes for Wastes Listed Above		
P.O. # 93856						
15. Special Handling Instructions and Additional Information 24 Hour Emergency Response: 1-800-424-9300 CHEMTREC (Use CHEMTREC company code "WORR") (Emergency call pager # 206-648-8423) Wear gloves & goggles						
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.						
Printed/Typed Name GERARD Thompson				Signature <i>[Signature]</i>		Month Day Year 07 21 04
17. Transporter 1 Acknowledgement of Receipt of Materials						
Printed/Typed Name Bill Tatum				Signature <i>[Signature]</i>		Month Day Year 07 21 04
18. Transporter 2 Acknowledgement of Receipt of Materials						
Printed/Typed Name				Signature		Month Day Year
19. Discrepancy Indication Space						
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.						
Printed/Typed Name Armando Chavez				Signature <i>[Signature]</i>		Month Day Year 07 26 04



WORLD RESOURCES
12:20PM 07/26/2004
GROSS 1432 lb
TARE 77 lb
NET 1355 lb

WORLD RESOURCES
12:21PM 07/26/2004
GROSS 1471 lb
TARE 77 lb
NET 1394 lb
ACCUM 2748 lb
07/26/2004 12:21PM

1.37
Tons

F006-2CF

WORLD RESOURCES
12:10PM 07/26/2004
GROSS 821 lb
TARE 52 lb
NET 769 lb

WORLD RESOURCES
12:12PM 07/26/2004
GROSS 832 lb
TARE 52 lb
NET 780 lb

WORLD RESOURCES
12:13PM 07/26/2004
GROSS 808 lb
TARE 52 lb
NET 756 lb

WORLD RESOURCES
12:14PM 07/26/2004
GROSS 892 lb
TARE 52 lb
NET 840 lb

WORLD RESOURCES
12:16PM 07/26/2004
GROSS 677 lb
TARE 52 lb
NET 625 lb

WORLD RESOURCES
12:16PM 07/26/2004
GROSS 571 lb
TARE 52 lb
NET 519 lb

WORLD RESOURCES
12:17PM 07/26/2004
GROSS 755 lb
TARE 52 lb
NET 703 lb

WORLD RESOURCES
12:18PM 07/26/2004
GROSS 862 lb
TARE 52 lb
NET 810 lb

ACCUM 5801 lb
07/26/2004 12:19PM

2.90
Tons

D007-8DM

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. W A D 9 8 0 7 3 8 5 4 6	Manifest Document No. 09804	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.
3. Generator's Name and Mailing Address Alaskan Copper Works P.O. Box 3546, Seattle, WA 98124				A. State Manifest Document Number	
4. Generator's Phone (206) 382-8379				B. State Generator's ID	
5. Transporter 1 Company Name PA. L. L. C. (PA. L. L. C. is a subsidiary of PA. L. L. C.)				C. State Transporter's ID	
6. Transporter 1 US EPA ID Number EAD0063547994				D. Transporter's Phone 1-800-341-1090	
7. Transporter 2 Company Name				E. State Transporter's ID	
8. US EPA ID Number				F. Transporter's Phone	
9. Designated Facility Name and Site Address World Resources Company 8113 West Sherman Street Tolleson, Arizona 85363-4025				G. State Facility's ID	
10. US EPA ID Number A Z D 9 8 0 7 3 5 5 0 0				H. Facility's Phone 800-972-1955	
11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)		12. Containers	13. Total Quantity	14. Unit Wt/Vol	1. Waste No.
a. <input type="checkbox"/> HM RQ, Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III		002 CF	029 13	P	F006
b. <input type="checkbox"/> HM RQ, Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III		003 DM	063 10	P	D007
c. <input type="checkbox"/> HM					
d. <input type="checkbox"/> HM					
J. Additional Descriptions for Materials Listed Above R.O. # 93856			K. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information 24 Hour Emergency Response: 1-800-424-9300 CHEMTREC (Use CHEMTREC company code "WORR") (Emergency call pager # 206-648-8423) Wear gloves & goggles					
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations. If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.					
Printed/Typed Name GERRARD THOMPSON		Signature <i>[Signature]</i>		Month Day Year 07 21 04	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Bill Thompson		Signature <i>[Signature]</i>		Month Day Year 07 21 04	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.					
Printed/Typed Name		Signature		Month Day Year	

TRANSPORTER

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME:
Hazardous waste, solid, n.o.s., (D007), 9, NA3077, III

NORTH AMERICAN
EMERGENCY
RESPONSE

TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

1. Some may burn, but none ignite readily.
2. Some may polymerize (P) explosively when heated or involved in a fire.
3. Containers may explode when heated.
4. Some may be transported hot.

HEALTH

1. Inhalation of material may be harmful.
2. Contact may cause burns to skin and eyes.
3. Inhalation of Asbestos dust may have a damaging effect on the lungs.
4. Fire may produce irritating, corrosive and/or toxic gases.
5. Runoff from fire control may cause pollution.

PUBLIC SAFETY

1. CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "WOPR").
2. Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
3. Keep unauthorized personnel away.
4. Stay upwind.

PROTECTIVE CLOTHING

1. Wear positive pressure self-contained breathing apparatus (SCBA).
2. Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

1. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

Small Fires

1. Dry chemical, CO₂, water spray or regular foam.

Large Fires:

1. Water spray, fog or regular foam.
2. Move containers from fire area if you can do it without risk.
3. Do not scatter spilled material with high pressure water streams.
4. Dike fire-control water for later disposal.

Fire Involving Tanks:

1. Cool containers with flooding quantities of water until well after fire is out.
2. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
3. ALWAYS stay away from the ends of tanks.

SPILL OR LEAK

1. Do not touch or walk through spilled material.
2. Stop leak if you can do it without risk.
3. Prevent dust cloud.
4. Avoid inhalation of asbestos dust.

Small Dry Spills

1. With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

Small Spills

1. Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

Large Spills

1. Dike far ahead of liquid spill for later disposal.
2. Cover powder spill with plastic sheet or tarp to minimize spreading.
3. Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

1. Move victim to fresh air.
2. Call emergency medical care.
3. Apply artificial respiration if victim is not breathing.
4. Administer oxygen if breathing is difficult.
5. Remove and isolate contaminated clothing and shoes.
6. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.



WORLD RESOURCES COMPANY

ARIZONA RECYCLING FACILITY

In partnership with the environment

LDRN

**LAND DISPOSAL RESTRICTION
NOTICE**



ISO 14001 Certified Recycling Facility

D007

A copy of this Notice must be retained by the Generator for **at least three (3) years**, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, **the Generator should check** the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.

To: **WORLD RESOURCES COMPANY**

8113 West Sherman Street, Tolleson AZ 85353-4025

From: **COMPANY NAME:**

Alaskan Copper Works

COMPANY ADDRESS:

P.O. Box 3546, Seattle, WA 98124

MANIFEST
NUMBER:

04004

DATE OF
SHIPMENT:

7-21-04

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ↓

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
D007	non-wastewater	40 CFR §268.40

SIGNATURE:

TITLE:

ENVIRONMENTAL TECH

NAME PRINTED:

GERALD Thompson

DATE:

7-21-04

Instructions

for the Completion of this Land Disposal Restriction Notice (**D007** LDRN)

This LDRN has been prepared based on a listed material--D007--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

If your material is described by additional "D" characteristic EPA waste codes, then they must each be included on the LDR Notice.

D007 GENERATORS

Material Safety Data Sheet

D007 Recyclable Material (Filter Cake)

Recycler's Facility Name and Site Address:
World Resources Company
8113 West Sherman Street
Tolleson, Arizona 85353-4025
Tel.: 602/233-9166 Fax: 623/936-9164

January 2002 DLS

Call CHEMTREC only in the event of emergencies during shipping that involve a spill, leak, fire, or accident (all calls are recorded).

For emergencies during shipping in the US or Canada, day or night, call: **CHEMTREC 800/424-9300**.

(Use CHEMTREC Company Code "WRRR".) For calls from other countries, call COLLECT: 703/527-3887.

Section 1

EPA Waste Classification: D007
Generic Name: Chromium-Bearing Filter Cake
Chemical Family: Metallic (Hydroxide) Participates
Synonym: Nonferrous Metal Hydroxide Filter Cake

DOT Shipping Name: RQ, Hazardous waste solid, n.o.s., (D007)
DOT Hazard Class: 9; **Packing Group:** III.
DOT Identification Number: NA 3077
Guide 171 of The North American Emergency Response Guidebook applies.

Material Identification

Section 2

Ingredient:	CAS Number:	Content%:
Copper Hydroxide	20427-59-2	0-30
Nickel Hydroxide	12054-48-7	0-15
Calcium Hydroxide	1305-62-0	0-15
Diatomite	61790-53-2	0-10
Chromic Hydroxide	1308-58-1	1-20

ACGIH-TLV:	Toxicology (rat, oral):
1.0 mg(Cu)/m ³ (dust)	LD-50 1,000 mg/kg
1.0 mg(Ni)/m ³ (dust)	LD-50 1,500 mg/kg
5.0 mg(Ca)/m ³ (dust)	LD-50 7,340 mg/kg
10.0 mg/m ³ (dust)	LD-50 not determined
0.05 mg(Cr)/m ³ (dust)	LD-50 not determined

Hazardous Ingredients

Section 3

Description: solid, clay-like, gray/green to brown, water content 30-80%
Specific Gravity: 2.5 to 3.5
Solubility: insoluble in water.
Incompatible Reactivity: none known.

Vapor Pressure: insignificant.
Stability: avoid contact with acids.
Polymerization: will not occur.
Density: 50-90 lbs./cu ft.

Physical and Reactivity Data

Boiling Point: above 2600°C
Melting Point: above 1800°C
pH: 7.0 to 10.0
Odor: nil.

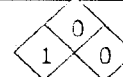
Section 4

Flashpoint: nonflammable.
Special Firefighting Procedures: none.
Product Decomposition (due to fire or explosion): none.

Oxidation: non-oxidizing.
Explosion Potential: non-explosive.

Fire and Explosion Data

NFPA
Fire Diamond



Section 5

Listed Carcinogenic Components: nickel, chromium
Toxicology: see Section 2.
Route of Entry: inhalation and ingestion.

Toxicity

Section 6

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.
Ingestion: Rare. Induce vomiting and call a physician—but never induce vomiting or give a liquid to an unconscious person.
Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes. If effects persist, call a physician.
Skin: Dust may irritate skin, causing forms of eczema. Wash with soap and water.
Long-Term: Long-term chronic over-exposure may affect the following target organs or body systems: blood; digestive; respiratory; lungs; liver; kidneys; and skin.
Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage, mental-sensitive skin, or skin lesions.

Health Effects and First Aid

Section 7

Precautions for Safe Handling

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with the material. The PPE should include eye protection, respirator and gloves.
Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled, to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain or snow.
Spills: Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Package material and ship to World Resources Company at the address shown above.

Section 8

Control Measures

Respiratory Protection: NIOSH-MSHA approved respirators as required.
Other Protective Equipment: coveralls are recommended but not required.

Eye Protection: safety glasses are recommended.
Hand Protection: gloves are recommended.

Section 9

Generator's Verification

This MSDS describes the recyclable material listed in the attached Manifest Number:

04004

7-21-04

↑Signature↑

↑Date↑

Alaskan Copper Works
P.O. Box 3546, Seattle, WA 98124
↑Company Name and Address↑

206-382-8379
↑Telephone↑

MATERIAL IDENTIFICATION

DOT BASIC SHIPPING DESCRIPTION AND TECHNICAL NAME
Hazardous waste, solid, n.o.s., (F006), 9, NA3077, III

NORTH AMERICAN
EMERGENCY
RESPONSE

TAKEN FROM GUIDE 171 OF THE NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK

(Underlined text applies directly to the material listed above)

POTENTIAL HAZARDS

FIRE OR EXPLOSION

1. Some may burn, but none ignite readily.
2. Some may polymerize (P) explosively when heated or involved in a fire.
3. Containers may explode when heated.
4. Some may be transported hot.

HEALTH

1. Inhalation of material may be harmful.
2. Contact may cause burns to skin and eyes.
3. Inhalation of Asbestos dust may have a damaging effect on the lungs.
4. Fire may produce irritating, corrosive and/or toxic gases.
5. Runoff from fire control may cause pollution.

PUBLIC SAFETY

1. CALL CHEMTREC at 1-800-424-9300 FOR EMERGENCY ASSISTANCE (Use CHEMTREC Company Code "W0RR").
2. Isolate spill or leak area immediately for at least 10 to 25 meters (30-80 feet) in all directions.
3. Keep unauthorized personnel away.
4. Stay upwind.

PROTECTIVE CLOTHING

1. Wear positive pressure self-contained breathing apparatus (SCBA).
2. Structural firefighters' protective clothing will only provide limited protection.

EVACUATION

Fire

1. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also, consider initial evacuation for 800 meters (1/2 mile) in all directions.

EMERGENCY RESPONSE

FIRE

Small Fires

1. Dry chemical, CO₂, water spray or regular foam.

Large Fires:

1. Water spray, fog or regular foam.
2. Move containers from fire area if you can do it without risk.
3. Do not scatter spilled material with high pressure water streams.
4. Dike fire-control water for later disposal.

Fire Involving Tanks:

1. Cool containers with flooding quantities of water until well after fire is out.
2. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.
3. ALWAYS stay away from the ends of tanks.

SPILL OR LEAK

1. Do not touch or walk through spilled material.
2. Stop leak if you can do it without risk.
3. Prevent dust cloud.
4. Avoid inhalation of asbestos dust.

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1. With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

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1. Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

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1. Dike far ahead of liquid spill for later disposal.
2. Cover powder spill with plastic sheet or tarp to minimize spreading.
3. Prevent entry into waterways, sewers, basements or confined areas.

FIRST AID

1. Move victim to fresh air.
2. Call emergency medical care.
3. Apply artificial respiration if victim is not breathing.
4. Administer oxygen if breathing is difficult.
5. Remove and isolate contaminated clothing and shoes.
6. In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.
7. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.



WORLD RESOURCES
COMPANY

In partnership with the environment

LAND DISPOSAL
RESTRICTION NOTICE



ISO 9001:2000 & 14001 Certified Recycling Facility

F006

A copy of this Notice must be retained by the Generator for at least three (3) years, pursuant to U.S. EPA Regulation 40 CFR §268.7(a)(8). Moreover, the Generator should check the hazardous-waste regulations of his/her own State, inasmuch as, if there is a State analogue to the federal regulation, it may require a longer retention time, such as five (5) years. It should also be noted that the federal regulation--and, typically, State analogues as well--requires the retention period to be extended further in specified cases.

To: **WORLD RESOURCES COMPANY** 8113 West Sherman Street, Tolleson AZ 85353-4025
From: **COMPANY NAME:** **COMPANY ADDRESS:**

MANIFEST NUMBER: 04004 DATE OF SHIPMENT: 7- -04

This shipment of material is subject to the land disposal restrictions of 40 CFR Part 268. The applicable land disposal restriction information, provided in accordance with 40 CFR §268.7(a)(2), is as shown in this table ↓

EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
F006	non-wastewater	40 CFR §268.40

SIGNATURE: [Signature] TITLE: ENVIRONMENTAL TECH.

NAME PRINTED: GERALD Thompson DATE: 7-21-04

Instructions for Completion of this Land Disposal Restriction Notice [LDRN]

This LDRN has been prepared based on a listed material--F006--as the primary designation of the material. This designation is based on information furnished by the Generator of the material. While it is believed to be accurate, it is the Generator's responsibility to determine whether his/her material is restricted from land disposal, and to correctly complete the LDR Notice [as stated in 40 CFR §268.7(a)(2)].

An F006 designation on the LDRN includes the following constituents: cadmium [D006], chromium [D007], lead [D008], silver [D011], cyanide, and nickel. However, the designation does not include arsenic [D004], barium [D005], mercury [D009], or selenium [D010]. If your F006 material contains any of those four constituents not included in the F006 designation, then use the following instructions.

In determining the need for any additional entries on the LDRN for the F006 material, the levels of arsenic, barium, mercury and selenium must be examined to determine if the levels equal or exceed the threshold concentrations of constituents for the Toxicity Characteristic limit as identified in 40 CFR §261.24 (Table 1), as shown in the left-hand column of the table below [as stated in 40 CFR §268.9].

If (after testing or based upon the generator's knowledge of the material) each metal level does not equal the Toxicity Characteristic level shown below, then no additional entry is required on the LDR Notice. If the level is known to be or determined to be equal to or above the limit shown below for any of these metals, then the appropriate information corresponding to that individual metal (in the right-hand column below) must be added to the LDR Notice.

REFERENCE INFORMATION TOXICITY CHARACTERISTIC		APPROPRIATE ENTRY ON LDR NOTICE		
Metal	Concentration Level	EPA Material Number	Treatability Group	CFR Reference for Treatment Standards
ARSENIC	5.0 mg/l	D004	non-wastewater	40 CFR §268.40
BARIUM	100 mg/l	D005	non-wastewater	40 CFR §268.40
MERCURY	.02 mg/l	D009	non-wastewater	40 CFR §268.40
SELENIUM	1.0 mg/l	D010	non-wastewater	40 CFR §268.40

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F006 GENERATORS

AKC-0016937

Material Safety Data Sheet

MSDS ID # AZ-10-A

F006 Recyclable Material (Filter Cake)

Recycler:

World Resources Company

8113 West Sherman Street

Tolleson, Arizona 85353-4025

Tel: 602-233-9166 Fax: 623-936-9164

January 2004 DLS

Call CHEMTREC only in the event of
emergencies during shipping that
involve a spill, leak, fire or accident
(all calls are recorded)

For Emergencies During Shipping in
the US or Canada, Day or Night.

Call: **CHEMTREC 800-424-9300**

Use CHEMTREC Company Code "WRRR"

From other countries call: 703-527-3887

Section 1

Material Identification

EPA Waste Classification: F006**Generic Name:** Electroplating/Metal-Finishing Wastewater Treatment Sludge**Chemical**

Metallic (Hydroxide) Precipitates

Family:**Synonym:** Non-ferrous Metal Hydroxide Filter Cake**DOT Shipping Name:** RQ, Hazardous waste solid, n.o.s. (F006)**DOT Hazard Class:** 9**DOT Packing Group:** III**DOT Identification Number:** NA 3077

Guide 171 of the North American Emergency Response Guidebook Applies

Section 2

Hazardous Ingredients

Ingredient:	CAS Number:	Content (%):	OSHA PEL (8hr TWA):	Toxicology (rat, oral):
Copper Hydroxide	20427-59-2	0 - 30	1.0 mg(Cu)/m ³ (Dust)	LD-50 1,000 mg/kg
Nickel Hydroxide	12054-48-7	0 - 15	1.0 mg(Ni)/m ³ (Dust)	LD-50 1,500 mg/kg
Calcium Hydroxide	1305-62-0	0 - 15	15.0 mg/m ³ (Dust)	LD-50 7,340 mg/kg
Diatomite	61790-53-2	0 - 10	6.0 mg/m ³ (Dust)	LD-50 Not Determined

Section 3

Physical and Reactivity Data

Description: Solid, Clay-like, Gray/Green to Brown, Moisture - 30 - 80%	Density: 50 - 90 lbs/ft ³	Boiling Point: Above 2,600°C
Specific Gravity: 2.5 to 3.5	Incompatible Reactivity: None Known	Melting Point: Above 1,800°C
Solubility: Insoluble in Water	Vapor Pressure: Insignificant	pH: 7.0 to 10.0
	Stability: Avoid Contact with Acids	Odor: Nil
		Polymerization: Will Not Occur

Section 4

Fire and Explosion Data

Flashpoint: Nonflammable
Special Firefighting Procedures: None
Decomposition (Due to Fire or Explosion): None

Oxidation: Non-oxidizing
Explosive: Non-explosive

NFPA
Fire Diamond



Section 5

Toxicity

Listed Carcinogen Components: Nickel
Toxicology: See Sec. 2
Route of Entry: Inhalation, Ingestion

Section 6

Health Effects and First Aid

Inhalation: Dust may irritate mucous membranes and upper respiratory tract. Remove to fresh air and treat symptoms.
Ingestion: Rare in industry. Induce vomiting (do not induce vomiting or give a liquid to an unconscious person) and call a physician.
Eyes: Dust may irritate eyes. Wash with copious amounts of water for 15 minutes, if effects persist, call a physician.
Skin: Dust may irritate skin with prolonged contact. Wash with soap and water.
Comments: Special attention should be given to employees with anemia, restricted respiratory abilities, lung cancer, permanent kidney damage and metal-sensitive skin or skin lesions. Unprotected long-term overexposure may cause effects to the following target organs or body systems - blood, digestive, respiratory, liver, kidneys and skin.

Section 7

Precautions for Safe Handling

Handling: Good personal and industrial hygiene should always be practiced. It is recommended that personal protective equipment (PPE) be used by personnel who will come in contact with this material. The PPE should include eye protection, respirator and gloves.
Storage: Keep covered and avoid conditions where wind could cause dispersal. Do not eat, drink or smoke where material is handled to avoid inhalation or ingestion. Store in a dry area under cover to protect from rain.
Spills: Use cleaning procedures that avoid creating excessive dust. Vacuum when possible. Package material and ship to consignee or return to World Resources Company at the above address.

Section 8

Control Measures

Respiratory Protection: NIOSH-MSHA approved respirators as required.
Other Protective Equipment: Coveralls are recommended, but not required.
Eye Protection: Safety glasses recommended.
Hand Protection: Gloves recommended.

Section 9

Generator's Verification

This MSDS describes the material listed in the attached Manifest #:

Company Name: Alaskan Copper Works**Company Address:** 628 S Hanford ST SEATTLE WA 98134**Telephone:** 206-382-8375**Date:** 7-21-04**Signature:**

AKC-0016938



GENERAL INTERNAL
PURCHASE REQUISITION

ITEM NO.	ACCT. NO.	QUAN-TITY	UNIT	DESCRIPTION & PART NUMBERS	UNIT PRICE	TOTAL LINE ITEM PRICE
1	6-688	1	LOT	TRANSPORTATION & RECYCLE of 8 Drums (Doot) weight 6,310 lbs (T)	395 ⁰⁰ Pounds	
2	6-686	1	LOT	TRANSPORTATION & RECYCLE of 2 Dxs (F006) weight 2913 lbs (T)	650 ⁰⁰ Pounds	

REQUESTED BY

DATE

APPROVED BY

DATE

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TO BE FILLED IN BY PURCHASING DEPT.

PURPOSE OR USE

P.O. NUMBER

DELIVERY NEEDED BY

VENDOR

SHIP TO ADDRESS

CONTACT

TELEPHONE NO.

SUGGESTED VENDOR

DELIVERY PROMISED

SHIP VIA

423004 Rev. 7/96

AKC-0016939



GENERAL INTERNAL
PURCHASE REQUISITION

ITEM NO.	ACCT. NO.	QUAN- TITY	UNIT	DESCRIPTION & PART NUMBERS	UNIT PRICE	TOTAL LINE ITEM PRICE
1	6-686	1	LOT	TRANSPORTATION & RECYCLING of 8 Drums (Doo7) weight 6,310 lbs (I)	395 ⁰⁰ Per lb	
2	6-686	1	LOT	TRANSPORTATION & RECYCLE of 2 Dxs (F006) weight 2913 lbs (T)	650 ⁰⁰ Per lb	

REQUESTED BY 	DATE 7-21-04	APPROVED BY 	DATE 7/21/04
<input type="checkbox"/> HERE FOR RETURN OF YELLOW COPY		TO BE FILLED IN BY PURCHASING DEPT	
PURPOSE OR USE		P.O. NUMBER M93856	
DELIVERY NEEDED BY		VENDOR World Resources Co.	
SHIP TO ADDRESS		CONTACT	TELEPHONE NO.
SUGGESTED VENDOR World Resources Co.		DELIVERY PROMISED	SHIP VIA